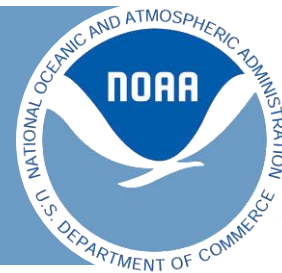




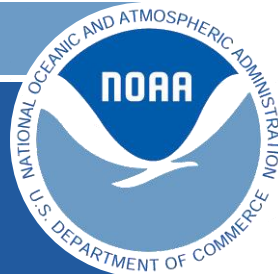
UNITED STATES DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION



# NOAA Climate Service

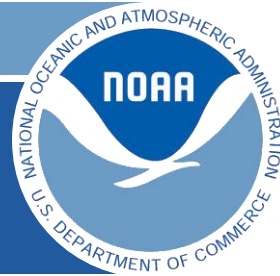
## Draft Vision and Strategic Framework

Dr. Chester Koblinsky  
September, 2010



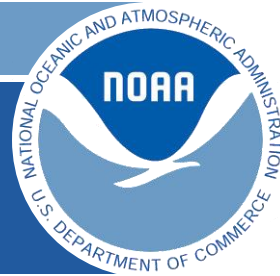
# Overview

- Background of NCS
- Draft Document Purpose and Contents
- NCS Vision, Mission and Objectives
- Core Capabilities
- Societal Challenges
- Critical Success Factors
- Assessments
- Partners



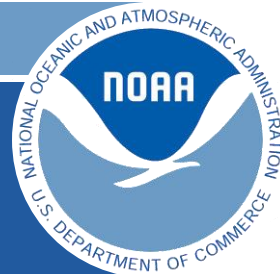
## Background: February 8<sup>th</sup> DOC – NOAA Announcement

- *“...NOAA’s intent to establish a new office called the NOAA Climate Service. This would create a single office for climate science and service bringing together the climate assets and capabilities that are currently dispersed in multiple units across the agency.”*
  - *“We are announcing the intent to reorganize existing assets to make NOAA’s Climate Services more responsive to the needs of those who use our services. While additional funds will be needed to increase NOAA’s core climate capabilities going forward to meet growing demands, the proposed reorganization is independent of new resources.”*
    - Joint press conference with Secretary Gary Locke and Under Secretary Jane Lubchenco
- <http://www.noaa.gov/climate.html>



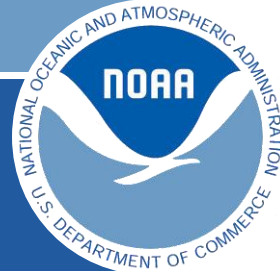
# Progress Since February

- Engagement on strengthening science
  - Science workshop and white paper on strategic priorities
  - Developing vision for OAR way forward
- Interagency collaborations:
  - Ongoing participation as Co-Chair of interagency Climate Change Adaptation Task Force
  - Signed MOU with DOC & DOI on regional climate collaboration
  - CDC and NOAA held workshop on climate change and public health
  - Currently exploring opportunities with Departments of Agriculture and Transportation
- Regional Climate Services Directors hired and plans for early activities completed
- Congressional requested National Academy of Public Administration Study complete
- Development of draft reprogramming package
- Development of Vision and Strategic Framework document
  - Written by NOAA senior climate science and service managers and practitioners from across the line offices



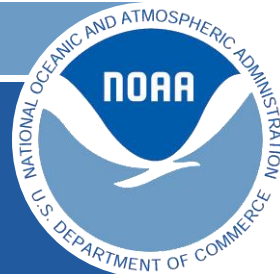
# Purpose of the Vision and Strategic Framework

- Purpose of the document
  - To describe how NOAA proposes to respond to society's growing need for climate services.
  - To outline an approach to achieving the vision.



# Contents of Document

- Chapter 1: Importance of a climate service in NOAA
- Chapter 2: Strategic Framework (core capabilities, societal challenges, importance of assessments)
- Chapter 3: Managing for Success (business practices, partnerships, evaluation of progress)
- Appendix A: core capabilities
- Appendix B: societal challenges
- Appendix C: alignment with National Academy recommendations
- Appendix D: alignment with NOAA Next Generation Strategic Plan



# NCS Vision and Mission

## Vision

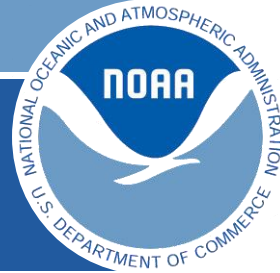
By providing science and services, the NCS envisions an informed society capable of anticipating and responding to climate and its impacts.

## Mission

Improve understanding and prediction of changes in climate and promote a climate-resilient society by:

- Monitoring climate trends, conducting research, and developing models to strengthen our knowledge of the changing climate and its impacts on our physical, economic, and societal systems
- Providing authoritative and timely information products and services about climate change, climate variability, and impacts
- Informing decision-making and management at the local, state, regional, national, and international levels

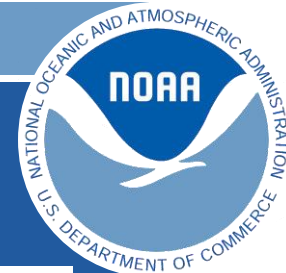
The NCS delivers products and services in collaboration with public, private, and academic partners to maximize social, economic, and environmental benefits.



# NCS Objectives

- Consistent with Climate objectives from NOAA's Next Generation Strategic Plan
  - Improved understanding of the changing climate system and its impacts
  - Integrated assessment of current and future states of the climate system that identify potential impacts and inform science, services, and decisions
  - Mitigation and adaptation choices supported by sustained, reliable, and timely climate services
  - A climate-literate public that understands its vulnerabilities to a changing climate and makes informed decisions.





# NCS Core Capabilities Address Societal Challenges

## Examples of Societal Concerns

Energy and water demands, food quality and quantity, reliable infrastructure during extremes of climate, plant and animal range expansion, ocean productivity, and other concerns, as affected by climate variability, global warming, heat waves, cold snaps, drought, fires, heavy downpours, blizzards, floods, sea-level rise, storm surge, sea-ice and glacier loss, snow cover, and other physical variables.



## Basic climate services are provided in these example sectors

Transportation

Agriculture

Energy

Health

## NCS initial priorities to meet societal challenges

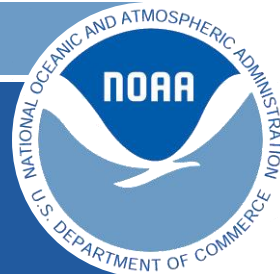
Sustain-  
ability of  
Marine  
Ecosystems

Coasts and  
Climate  
Resilience

Climate  
Impacts on  
Water  
Resources

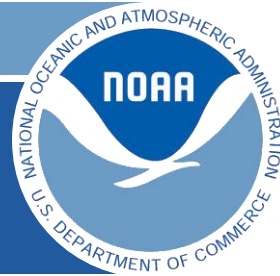
Changes in  
Extremes  
of Weather  
& Climate

Informing  
Climate  
Policy  
Options



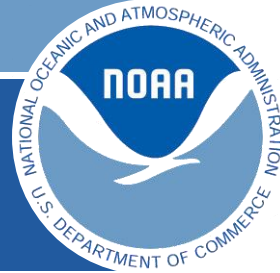
# NCS Core Capabilities

- Observing Systems, Data Stewardship, and Climate Monitoring
  - Measure, capture, preserve, and provide easy access to the historical record of the global environment.
- Understanding and Modeling
  - Provide credible and authoritative science to advance the understanding and prediction of climate variability and change.
- Integrated Services Development and Decision Support
  - Provide stakeholders with a platform of timely and relevant climate data, models, and information.



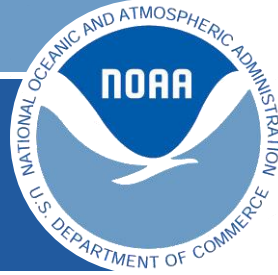
# Initial Societal Challenges

- Climate Impacts on Water Resources
  - Provide coordinated and authoritative information system to guide water resource managers.
- Coasts and Climate Resilience
  - Understand physical processes driving sea-level rise and coastal inundation, and provide best available information to decision makers.
- Sustainability of Marine Ecosystems
  - Improve understanding of, and information about, the impacts of climate on ocean properties critical to managing large marine ecosystems.
- Changes in Extremes of Weather and Climate
  - Develop and deliver information to prepare for and adapt to climate and weather extremes, e.g. droughts, floods, heat waves & cold snaps
- Informing Climate Policy Options
  - Provide sound science to inform climate-related policies, plans and strategies including both adaptation and mitigation.



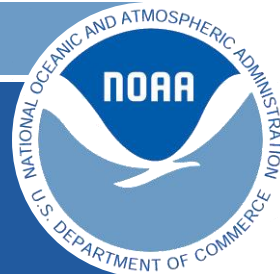
# Critical Success Factors

- Strong partnerships
- Science and service synergies through a National Climate Service Enterprise
- Expanded engagement through Assessment Services
- Traceability, Credibility, and Transparency
- A culture of success



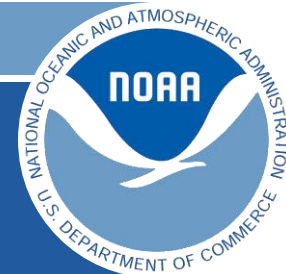
# Assessments

- NCS will engage in three types of assessments
  - National and International Climate Science Assessments
    - Broad scope of problems and interest, broad set of peer-reviewed material (e.g. National Climate Assessment)
  - Problem-Focused Climate Science Assessments
    - Often time-sensitive, address issues at local and regional levels (e.g. Devil's Lake, ND)
  - Needs Assessments
    - Help to identify gaps in science, understanding or services, including helping frame & inform other assessments.



# Partners

- Partners from across the broader climate community both contribute to and benefit from the core capabilities
  - Other parts of NOAA, federal, state, tribal and local agencies, cooperative institutes and other academic partners, the private sector, and the international community



# Partnerships: Current allocation of NOAA resources to support core capabilities

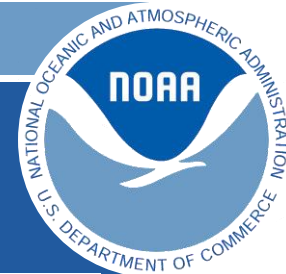
NCS will continue to support a broad array of partnerships to deliver its core capabilities. Circle size represents relative level of support.

Core Capabilities (down)/ Partnerships Dependencies (across)	Internal NOAA	Other Federal Agencies	State and/or Local Govt.	International	Academic	Private Sector	NGOs
Observations and Monitoring							
Understanding and Modeling							
Integrated Service Development & Decision Support							

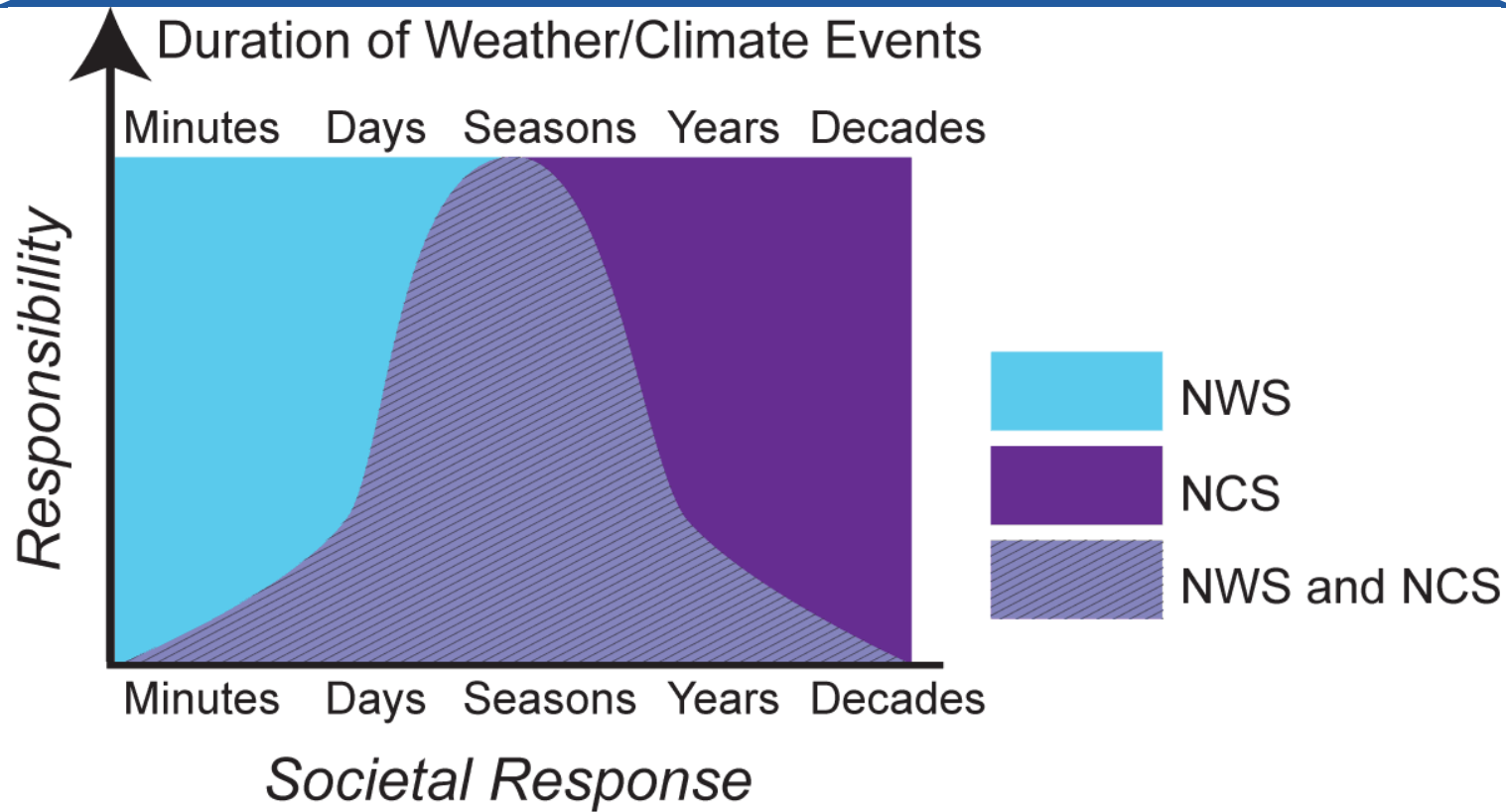




NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



# NOAA Weather and Climate Services Continuum



**NWS**

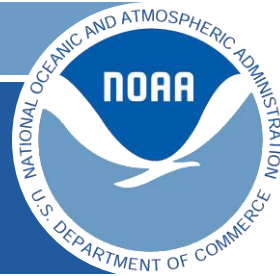
High Freq of Information  
Short Lifetime of Product



**NCS**

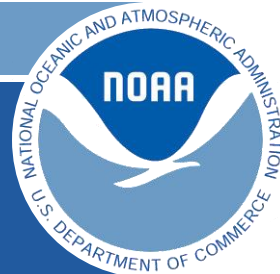
Low Freq of Information  
Long Lifetime of Product





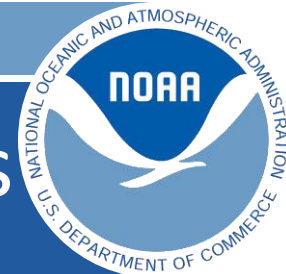
# Next Steps

- Public comment period through 10/18  
(comments to [ncscomments@noaa.gov](mailto:ncscomments@noaa.gov))
- Finalize Vision and Strategic Framework document
- Submit reprogramming package to OMB and Congress (Fall)
- Pending approval, implement the NCS in 2011



## NCS Updates

# Other Recent Accomplishments



# Regional Climate Service Directors

**DeWayne Cecil**  
Salt Lake City, Utah

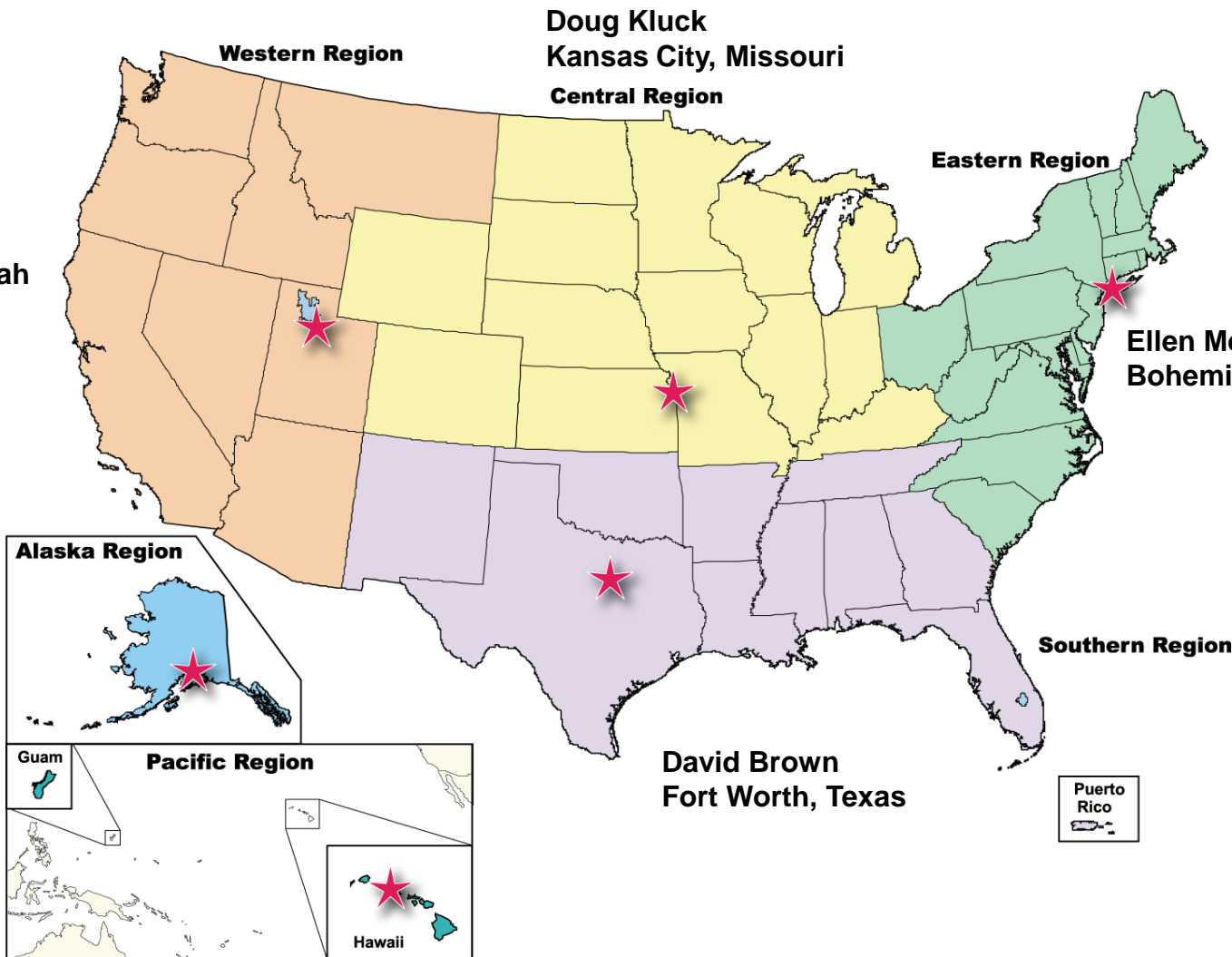
**Doug Kluck**  
Kansas City, Missouri

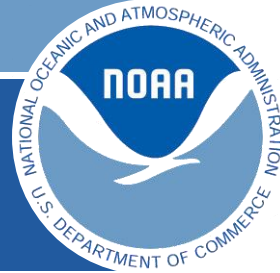
**Ellen Mecray**  
Bohemia, New York

**James Partain**  
Anchorage, Alaska

**John Marra**  
Honolulu, Hawaii

**David Brown**  
Fort Worth, Texas





# NAPA Recommendations

## 1. Administration Recommendations

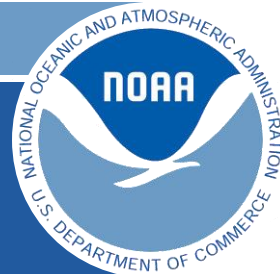
- The Administration should take actionable steps to establish an Interagency climate services framework
- NOAA should be designated the Lead Agency if an Interagency framework is established

## 2. NOAA Organizational Recommendations

- A new Climate Service Line Office is the right organizational design choice
- Science and service assets should be combined within one Line Office
- NAPA's overall proposed Line Office structure aligns with the NOAA-DOC proposal

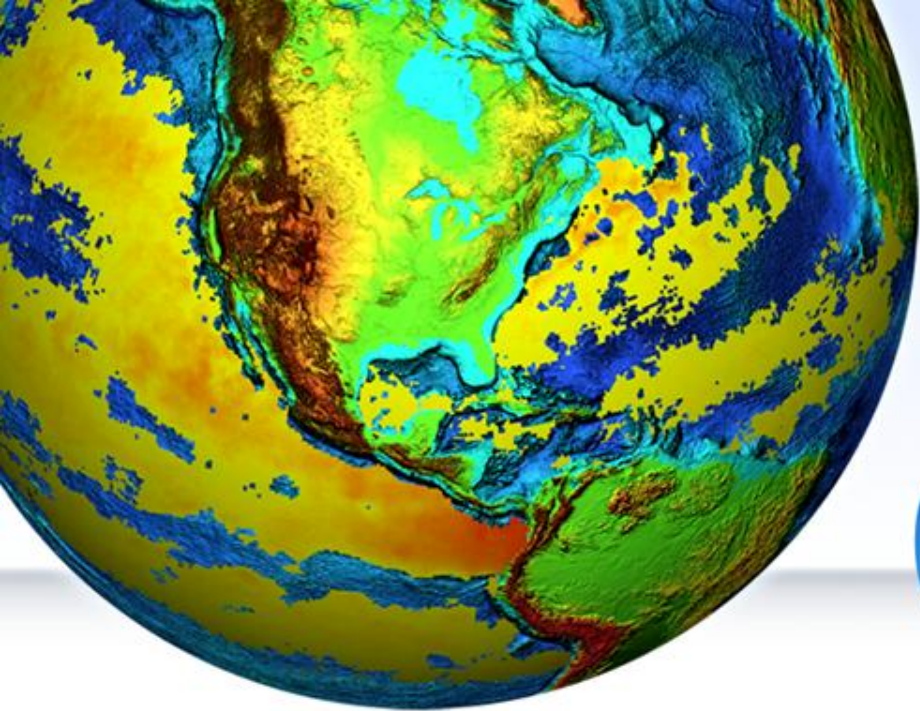
## 3. NOAA Implementation Recommendations

- Establish transitional leadership focused on Implementation and Change Management
- Examples of lessons learned from previous large reorganizations from the defense and security communities



# For More Information...

- [www.noaa.gov/climate](http://www.noaa.gov/climate)
  - NAPA report, Vision and Strategic Framework, Document, Q&As, proposed reorganization chart, climate handouts, links to background resources.
- [www.climate.gov](http://www.climate.gov)
  - NOAA's Climate Portal



# NOAA CLIMATE SERVICE

Thank You...

Questions?